

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/051993 A1

- (51) International Patent Classification⁷: **C07K 14/475**,
C07H 21/04, C12N 15/12, A61K 38/18, 39/395, 31/711,
A61P 43/00
- (74) Agent: BALDWINS; PO Box 852, Wellington (NZ).
- (21) International Application Number:
PCT/NZ2004/000308
- (22) International Filing Date:
26 November 2004 (26.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
529860 28 November 2003 (28.11.2003) NZ
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GH, GM, GR, GU, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (71) Applicant (*for all designated States except US*): OVITA LIMITED [NZ/NZ]; Level 4, NZI House, 9 Moray Place, Dunedin (NZ).
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): SHARMA, Mridula [NZ/NZ]; 41 Admiral Crescent, 2001 Hamilton (NZ). BERRY, Carole [NZ/NZ]; 58 Orchard Road, Hamilton (NZ). THOMAS, Mark [NZ/NZ]; 1A Ansford Place, Hamilton (NZ). KAMBADUR, Ravi [NZ/NZ]; 41 Admiral Crescent, Hamilton (NZ). BOWER, Robert, Syndecombe [AU/NZ]; 6 Norflod Street, Dunedin (NZ).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: NOVEL MUSCLE GROWTH REGULATOR

(57) Abstract: The present invention provides for a novel muscle growth regulating factor, including polynucleotide and polypeptide sequences, promoter sequences, constructs comprising the sequences, and compositions for regulating muscle growth and treating diseases associated with muscle growth. The present invention also provides to the use of the present sequences in identifying animals with altered muscle mass, and for selective breeding programmes to produce animals with altered muscle mass.

WO 2005/051993 A1

BEST AVAILABLE COPY